	Application No.	Applicant(s)
Notice of Allowability	09/269,503	KANEKO ET AL.
	Examiner	Art Unit
	Timothy L. Rude	2883
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 11 November 2004.</u>		
2. The allowed claim(s) is/are 2,4,6,8,10,12,14 and 16.		
3. The drawings filed on 29 March 1999 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN 	e been received. e been received in Application No cuments have been received in the communication to file a re	o his national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give 	itted. Note the attached EXAMIN	
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in the	st be submitted. son's Patent Drawing Review (P s Amendment / Comment or in the s84(c)) should be written on the dra	TO-948) attached e Office action of awings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG	L must be submitted. Note the GICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summ Paper No./Mail 8), 7. ☐ Examiner's Ame	Date ndment/Comment ement of Reasons for Allowance
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DETAILED ACTION

Claims

Claims 1, 11, 17, and 18 are canceled. Claim 2 is amended.

Allowable Subject Matter

Claims 2, 4, 6, 8, 10, 12, 14, and 16 are allowed.

The following is an examiner's statement of reasons for allowance:

As to claim 2, Applicant's amendment filed 11 November 2004 added new limitations that overcome rejections per Applicant's arguments on page 9 of Applicant's remarks filed 11 November 2004. Relevant prior art of record, alone or in combination, do not teach a liquid crystal display device as claimed wherein the device <u>switches from a light absorbing layer colored **reflective** state to an increased brightness state (mirror like reflective state per structure and specification).</u>

The closest combination is Ouderkirk et al (Ouderkirk) USPAT 6124971 in view of Nakanishi et al (Nakanishi) USPAT 5,587,821.

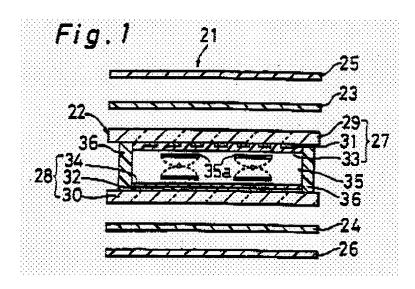
Ouderkirk discloses the use of a reflective polarizer (col. 16, lines 30-48), a front dichroic polarizer (col. 16, lines 48-49), and a light absorbing member outside the reflective polarizer (col. 17, lines 9-11).

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Ouderkirk differs from the claimed invention because he does not disclose the use of a super twisted nematic liquid crystal, a retardation film having relations of nx > nz > ny.

Nakanishi discloses in the Summary of the Invention, a super twisted nematic liquid crystal cell having electrodes, 31 and 32, a retardation film, 23, outside second substrate, an absorption-type polarizer, 25, outside the retardation film. Nakanishi also discloses the use of one or more retardation films with the relationship nz = (nx-nz)/(nx-ny), where 0 < nz < 0.5 (col. 5, lines 10-15) which satisfies nx > nz > ny for all values of nz > 0 to compensate for liquid crystal layer birefringence to obtain excellent display quality in both of the opposing viewing angle directions (Abstract).



Nakanishi teaches that his compensator is applicable to reflective displays (col. 15, lines 26-31). Note that satisfactory compensation of nx, ny, and nz of Nakanishi would result in light compensation that is substantially polarized light during passage through the absorption-type polarizing film, the retardation film, and the super twisted

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nematic liquid crystal cell, in a state with no voltage applied, as evidenced by the excellent display quality in both of the opposing viewing angle directions.

Although structures similar to Applicant's exist in the art, they are almost exclusively designed to switch from a very dark state (ideally black) to a very bright state (ideally white or a high-brightness primary color). Since black is the absence of all color (absence of all reflection), such displays are considered to not read on the claimed invention.

As to claims 4, 6, 8, 10, 12, 14, and 16, they are directly dependent upon claim 2 with allowable subject matter above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Monday through Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Timothy L Rude Examiner

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The Rule

Frank G. Font

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